

**AMENDMENTS*****In the claims***

1. (Currently Amended) A cartridge storage system comprising:
  - a movable component;
  - a removable nonvolatile memory component (RNMC) residing on a first printed circuit board, the RNMC storing operational data indicative of an operational history of the movable component when the RNMC resided on a second printed circuit board; and
  - logic configured to store operational data indicative of an operational history of the movable component in the RNMCoperate the movable component in response to the cartridge storage system detecting an error based upon the operational data stored in the RNMC residing on the first printed circuit board.
2. (Original) The storage system as claimed in claim 1, wherein the movable component comprises a data cartridge.
3. (Original) A storage system as claimed in claim 1, wherein the movable component comprises a vial.
4. (Original) A storage system as claimed in claim 1, wherein the movable component comprises a movable cartridge access device.

5. (Original) The storage system as claimed in claim 4, wherein the logic is configured to receive a cartridge retrieval request, the logic further configured to instruct the movable cartridge access device to retrieve a cartridge and to load the cartridge into a cartridge receiver.
6. (Original) The storage system as claimed in claim 5, wherein the movable cartridge access device is configured to communicate data indicative of mechanical events to the logic, the logic further configured to receive and to store the data in the RNMC.
7. (Original) The system as claimed in claim 1, wherein the logic is further configured to save system component identification numbers to the RNMC.
8. (Original) The storage system as claimed in claim 1, wherein the RNMC and the logic reside on a single printed circuit board.
9. (Currently Amended) A cartridge storage system comprising:
  - a cartridge access device;
  - a removable nonvolatile memory component (RNMC) residing on a first printed circuit board, the RNMC storing operational data indicative of an operational history of the movable component when the RNMC resided on a second printed circuit board; and
  - means for operating the movable component in response to the cartridge storage system detecting an error based upon the operational data stored on the RNMC residing on the first printed circuit board storing operational data associated with the cartridge access device in the RNMC.

10. (Original) The system as claimed in claim 9, wherein the storing means and the RNMC reside on a single printed circuit board.

11. (Original) The system as claimed in claim 10, wherein the cartridge is a data cartridge and the movable cartridge access device is configured to load the data cartridge into a cartridge drive.

12. (Original) The system as claimed in claim 10, wherein the cartridge is a vial and the movable cartridge access device is configured to load the vial into a vial receiving station.

13. (Currently Amended) A cartridge management method comprising:  
automatically transporting a cartridge from one location within a cartridge storage system to another location within the cartridge storage system; and  
storing operational data related to the transporting to a removable nonvolatile memory component (RNMC) coupled to a first printed circuit board;  
replacing the first printed circuit board with a second printed circuit board;  
coupling the RNMC to the second printed circuit board; and  
automatically determining, based upon the operational data, the location of the cartridge.

14. (Original) The method as claimed in claim 13, wherein the cartridge is a data cartridge.

15. (Original) The method as claimed in claim 14, further comprising loading the data cartridge into a cartridge drive.

16. (Original) The method as claimed in claim 13, wherein the cartridge is a vial.

17. (Original) The method as claimed in claim 16, further comprising loading the vial into a vial receiving station.

18. (Currently Amended) A cartridge management method ~~The method as claimed in claim 13, wherein the RNMC resides on a printed circuit board (PCB), the method further comprising:~~

automatically transporting a cartridge from one location within a cartridge storage system to another location within the cartridge storage system;  
storing operational data related to the transporting to the removable nonvolatile memory component (RNMC) residing on a printed circuit board (PCB);  
replacing the first PCB with a second PCB; and  
moving the RNMC from the first PCB to the second PCB.

19. (Original) The method as claimed in claim 18, further comprising detecting a failure of a component on the first PCB, wherein the replacing is performed in response to the detecting.

20. (Currently Amended) A method for managing a cartridge storage system, comprising:

transporting [[of]] a cartridge from one location to another location within the cartridge storage system;

controlling the ~~transportation~~transporting, via a first integrated manager, the first integrated manager comprising a removable nonvolatile memory component (RNMC);

storing data indicative of the controlling to the RNMC;

removing the RNMC from the first integrated manager;

attaching the RNMC to a second integrated manager; and

controlling operation of the cartridge storage system, via the second integrated manager, based on data stored in the RNMC.

21. (Currently Amended) The method as claimed in claim [[19]]20, wherein the cartridge is a data cartridge.

22. (Original) The method as claimed in clam 20, wherein the cartridge is a vial.